

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (previously presented): An inductive heating device comprising:

a power supply including a primary coil;

an inductive coupling assembly including an inductive coupling sleeve coupled to a first end of a cable assembly, the inductive coupling sleeve having a secondary coil positioned therein and electrically coupled with the cable assembly; and

an inductor core;

wherein the inductive coupling assembly is configured to removably couple the cable assembly to the power supply in inductively coupling the inductor core between the primary coil and the secondary coil.

Claim 2 (withdrawn): The inductive heating device of claim 1, further comprising an inductively heated work head interchangeably connected to a second end of the cable assembly.

Claim 3 (original): The inductive heating device of claim 1, wherein the inductor core is attached to the power supply and extends from the primary coil.

Claim 4 (original): The inductive heating device of claim 1, wherein the inductor core is attached to the coupling sleeve and extends from the secondary coil.

Claim 5 (withdrawn): The inductive heating device of claim 1, wherein the inductor core includes a first portion and a second portion, the first portion and the second portion configured to be separably matcable.

Claim 6 (withdrawn): The inductive heating device of claim 5, wherein the first portion of the inductor core is located at the power supply within the primary coil and the second portion of the inductor core is located at the coupling sleeve within the secondary coil.

Claim 7 (withdrawn): The inductive heating device of claim 5, wherein the first portion of the inductor core and the second portion of the inductor core couple to form a toroid.

Claim 8 (withdrawn): The inductive heating device of claim 5, wherein the first portion of the inductor core and the second portion of the inductor core couple to form a cylinder.

Claim 9 (withdrawn): The inductive heating device of claim 1, wherein the inductive coupling assembly includes a locking mechanism configured to secure the cable assembly to the power supply.

Claim 10 (withdrawn): The inductive heating device of claim 9, wherein the locking mechanism is a twist and lock connector.

Claim 11 (withdrawn): The inductive heating device of claim 9, wherein the locking mechanism includes a first locking member connected to the power supply and a second locking member connected to the inductive coupling sleeve such that coupling the first locking member to the second locking member forms a separable locking connection.

Claim 12 (withdrawn): The inductive heating device of claim 11, wherein the first locking member is formed as part of a housing of the power supply.

Claim 13 (currently amended): A method of inductively heating a target substrate, the method comprising:

providing a power supply including a primary coil and a first portion of an inductor core;
coupling a sleeve disposed at a first end of a cable assembly to the power supply, where
the sleeve includes a secondary coil and a second portion of the inductor core

where the sleeve encloses at least a portion of the second coil and at least a portion of the second portion of the inductor core, such that the first and second portions of the inductor core inductively couple; and
activating the power supply to inductively heat a work head attached to a second end of the cable assembly.

Claim 14(withdrawn):The method of claim 13, wherein coupling the sleeve to the power supply includes removably locking the first end of the cable assembly to the power supply.

Claim 15(withdrawn):The method of claim 14, wherein coupling the sleeve to the power supply includes manipulating a twist and lock connector.

Claim 16 (withdrawn): The method of claim 15, wherein manipulating the twist and lock connector includes twisting a second locking member connected to the sleeve to engage a first locking member connected to the power supply.

Claim 17 (withdrawn): The method of claim 13, wherein coupling the sleeve to the power supply includes mating first and second portions of the inductor core to form a toroidal inductor core.

Claim 18 (withdrawn): The method of claim 13, wherein activating the power supply inductively heats a work head interchangeably attached to the second end of the cable assembly.

Claim 19 (previously presented): An inductive heating device comprising:
a power supply electrically connected to a primary coil;
a work head electrically connected to a secondary coil;
an inductive coupling assembly including the primary coil, the secondary coil and an inductor core, wherein the inductive coupling assembly is configured to removably couple the power supply to the work head by selective magnetic coupling of the primary coil to the secondary coil through the inductor core.

Claim 20 (original): The inductive heating device of claim 19, wherein the inductor core is attached within and extends from the primary coil.

Claim 21 (original): The inductive heating device of claim 19, wherein the inductor core is attached within and extends from the secondary coil.

Claim 22 (withdrawn): The inductive heating device of claim 19, wherein the inductor core includes a first portion and a second portion, the first portion and the second portion configured to be separably mateable.

Claim 23(withdrawn): The inductive heating device of claim 22, wherein the first portion of the inductor core is located within the primary coil, and the second portion of the inductor core is located within the secondary coil.

Claim 24 (withdrawn): The inductive heating device of claim 22, wherein the first portion of the inductor core and the second portion of the inductor core mate to form a toroid.

Claim 25 (withdrawn): The inductive heating device of claim 19 further including a cable assembly with a first end and a second end, the first end of the cable assembly coupled to the power supply and wherein the inductive coupling assembly is configured to removably couple the cable assembly to the work head.

Claim 26 (withdrawn): The inductive heating device of claim 19 further including a cable assembly, the inductive coupling assembly configured to removably couple the cable assembly to the power supply.

Claim 27 (withdrawn): The inductive heating device of claim 19, wherein the inductive coupling assembly includes a locking mechanism.

Claim 28 (currently amended): An inductive heating device comprising:

a power supply including a primary coil;

a cable assembly having a first end electrically coupled to and at least partially enclosing
a secondary coil and a second end electrically coupled to a work head;

an inductor core; and

means for removably coupling the cable assembly to the power supply such that the
inductor core couples between the primary coil and the secondary coil.